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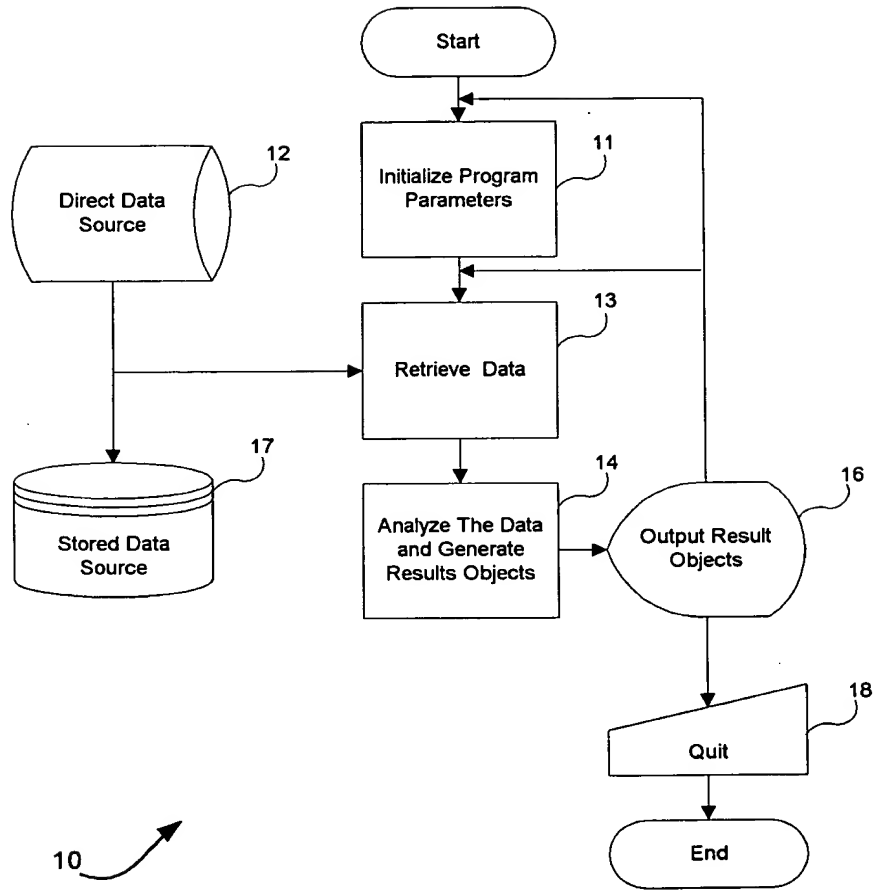


FIG. 1

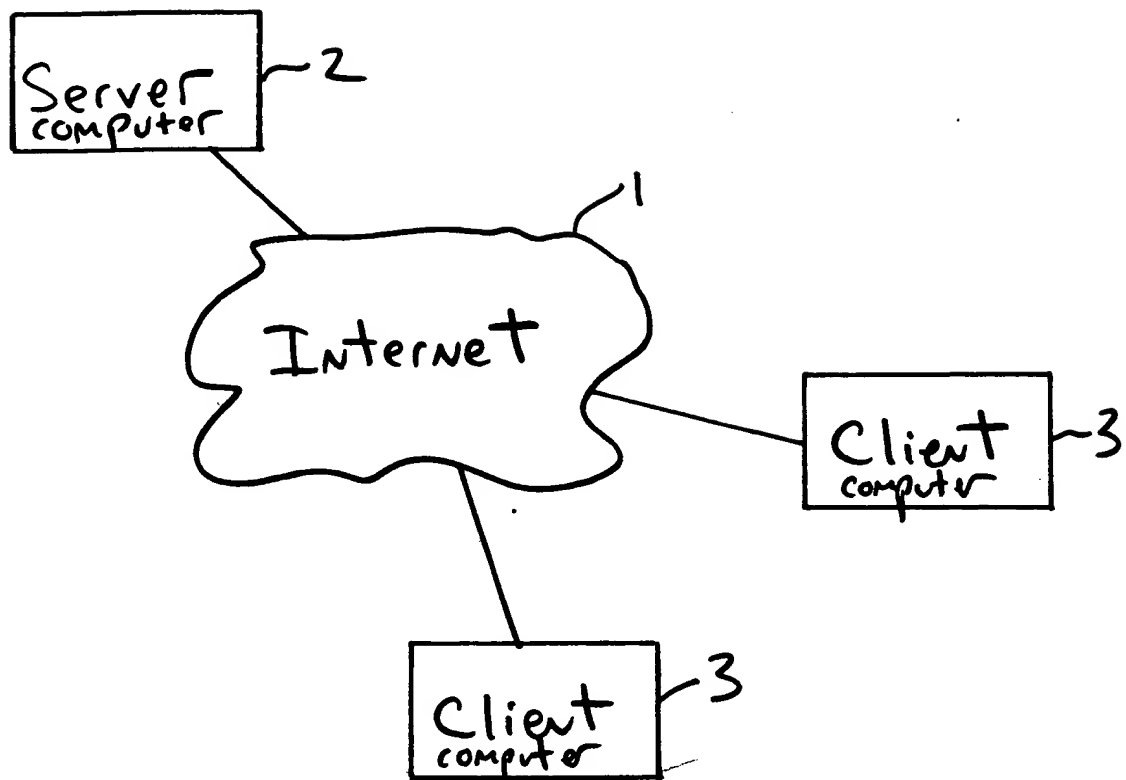


FIG. 1a

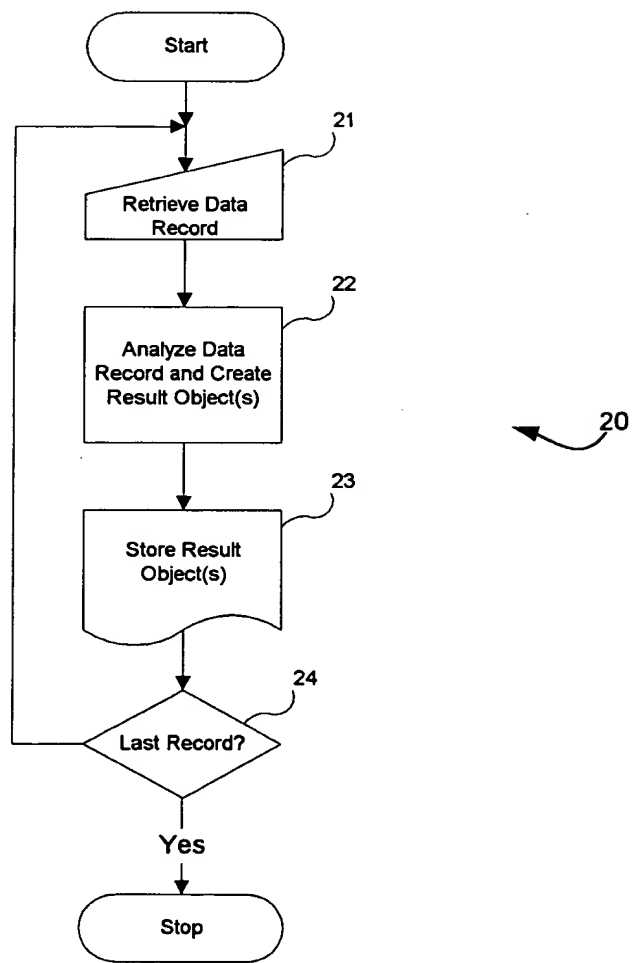


FIG. 2

Species	1990-1991	1992-1993	1994-1995	1996-1997	1998-1999	2000-2001	2002-2003	2004-2005	2006-2007	2008-2009	2010-2011	2012-2013	2014-2015	2016-2017	2018-2019	2020-2021	2022-2023	2024-2025	2026-2027	2028-2029	2030-2031	2032-2033	2034-2035	2036-2037	2038-2039	2040-2041	2042-2043	2044-2045	2046-2047	2048-2049	2050-2051	2052-2053	2054-2055	2056-2057	2058-2059	2060-2061	2062-2063	2064-2065	2066-2067	2068-2069	2070-2071	2072-2073	2074-2075	2076-2077	2078-2079	2080-2081	2082-2083	2084-2085	2086-2087	2088-2089	2090-2091	2092-2093	2094-2095	2096-2097	2098-2099	2100-2101	2102-2103	2104-2105	2106-2107	2108-2109	2110-2111	2112-2113	2114-2115	2116-2117	2118-2119	2120-2121	2122-2123	2124-2125	2126-2127	2128-2129	2130-2131	2132-2133	2134-2135	2136-2137	2138-2139	2140-2141	2142-2143	2144-2145	2146-2147	2148-2149	2150-2151	2152-2153	2154-2155	2156-2157	2158-2159	2160-2161	2162-2163	2164-2165	2166-2167	2168-2169	2170-2171	2172-2173	2174-2175	2176-2177	2178-2179	2180-2181	2182-2183	2184-2185	2186-2187	2188-2189	2190-2191	2192-2193	2194-2195	2196-2197	2198-2199	2200-2201	2202-2203	2204-2205	2206-2207	2208-2209	2210-2211	2212-2213	2214-2215	2216-2217	2218-2219	2220-2221	2222-2223	2224-2225	2226-2227	2228-2229	2230-2231	2232-2233	2234-2235	2236-2237	2238-2239	2240-2241	2242-2243	2244-2245	2246-2247	2248-2249	2250-2251	2252-2253	2254-2255	2256-2257	2258-2259	2260-2261	2262-2263	2264-2265	2266-2267	2268-2269	2270-2271	2272-2273	2274-2275	2276-2277	2278-2279	2280-2281	2282-2283	2284-2285	2286-2287	2288-2289	2290-2291	2292-2293	2294-2295	2296-2297	2298-2299	2300-2301	2302-2303	2304-2305	2306-2307	2308-2309	2310-2311	2312-2313	2314-2315	2316-2317	2318-2319	2320-2321	2322-2323	2324-2325	2326-2327	2328-2329	2330-2331	2332-2333	2334-2335	2336-2337	2338-2339	2340-2341	2342-2343	2344-2345	2346-2347	2348-2349	2350-2351	2352-2353	2354-2355	2356-2357	2358-2359	2360-2361	2362-2363	2364-2365	2366-2367	2368-2369	2370-2371	2372-2373	2374-2375	2376-2377	2378-2379	2380-2381	2382-2383	2384-2385	2386-2387	2388-2389	2390-2391	2392-2393	2394-2395	2396-2397	2398-2399	2400-2401	2402-2403	2404-2405	2406-2407	2408-2409	2410-2411	2412-2413	2414-2415	2416-2417	2418-2419	2420-2421	2422-2423	2424-2425	2426-2427	2428-2429	2430-2431	2432-2433	2434-2435	2436-2437	2438-2439	2440-2441	2442-2443	2444-2445	2446-2447	2448-2449	2450-2451	2452-2453	2454-2455	2456-2457	2458-2459	2460-2461	2462-2463	2464-2465	2466-2467	2468-2469	2470-2471	2472-2473	2474-2475	2476-2477	2478-2479	2480-2481	2482-2483	2484-2485	2486-2487	2488-2489	2490-2491	2492-2493	2494-2495	2496-2497	2498-2499	2500-2501	2502-2503	2504-2505	2506-2507	2508-2509	2510-2511	2512-2513	2514-2515	2516-2517	2518-2519	2520-2521	2522-2523	2524-2525	2526-2527	2528-2529	2530-2531	2532-2533</
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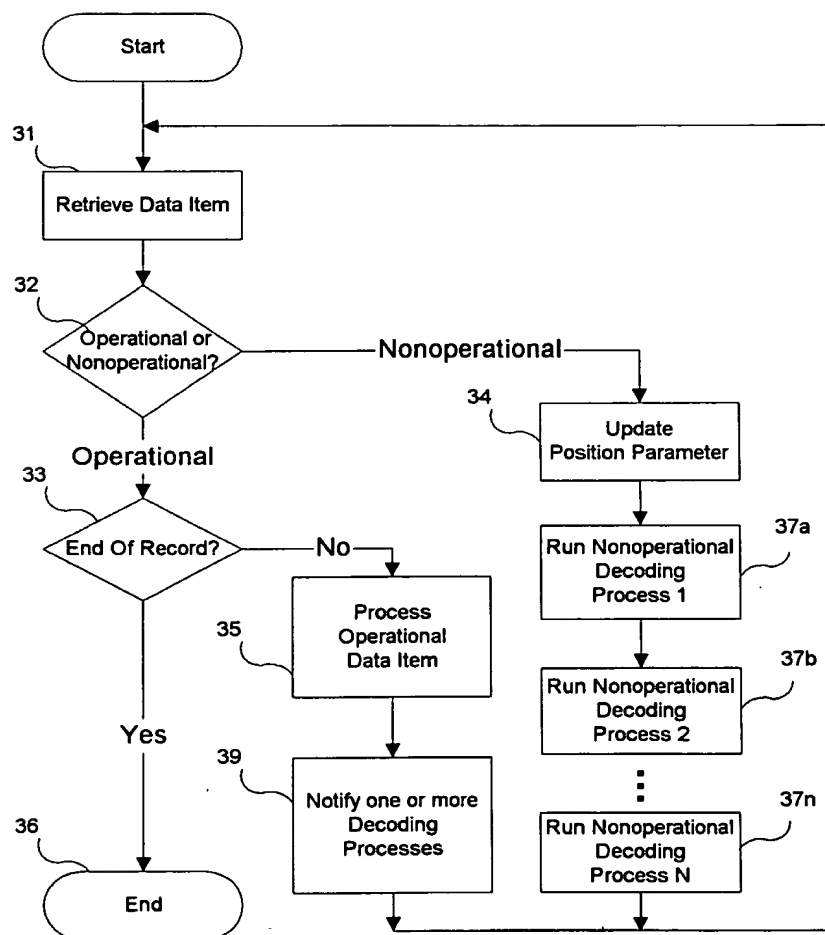


FIG. 3

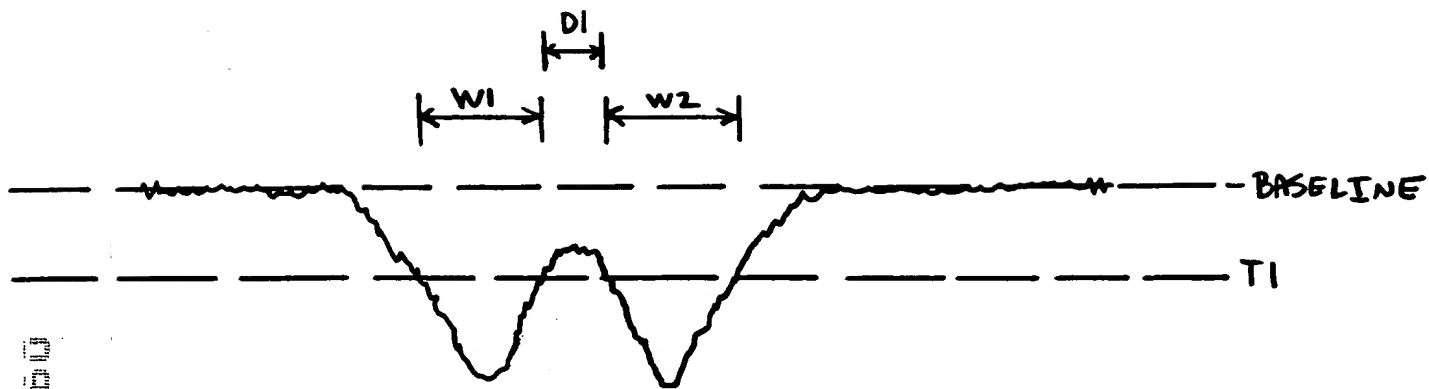


FIG. 3a

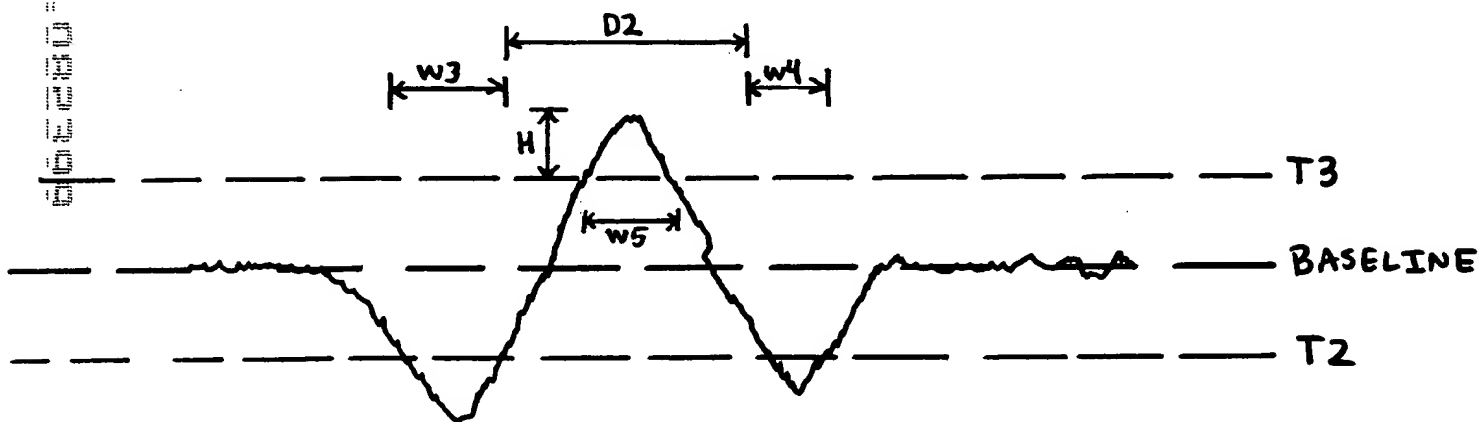


FIG. 3b

```
graph TD
    Start([Start]) --> D43{InWindow = True or False?}
    D43 -- True --> D45{Does Data item Meet Threshold Criteria?}
    D45 -- No --> S47[Set InWindow = False]
    S47 --> D41{Does Width meet Width Criteria?}
    D41 -- No --> S41b[Delete Result Object(s)]
    D41 -- Yes --> S41a[Close and Store Result Object(s)]
    S41a --> S42[Set Width = 0]
    S41b --> S42
    D43 -- False --> D46{Does Data item Meet Threshold Criteria?}
    D46 -- Yes --> S49[Set InWindow = True and Create Result Object(s)]
    D46 -- No --> J44(( ))
    S49 --> J44
    D45 -- Yes --> S48[Update Result Object(s) Increment Width]
    S48 --> J44
    S42 --> J44
    J44 --> End([End])
```

560090.1

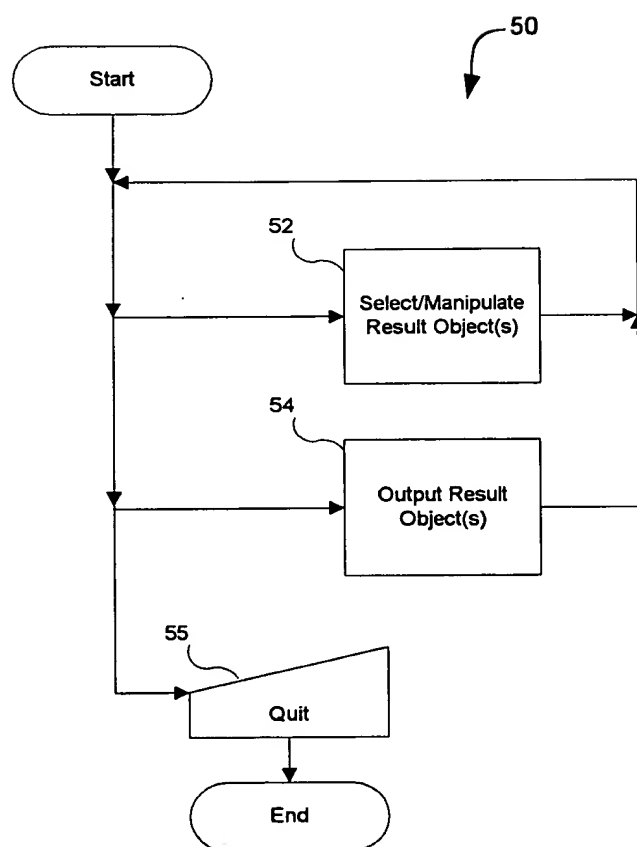


FIG. 5

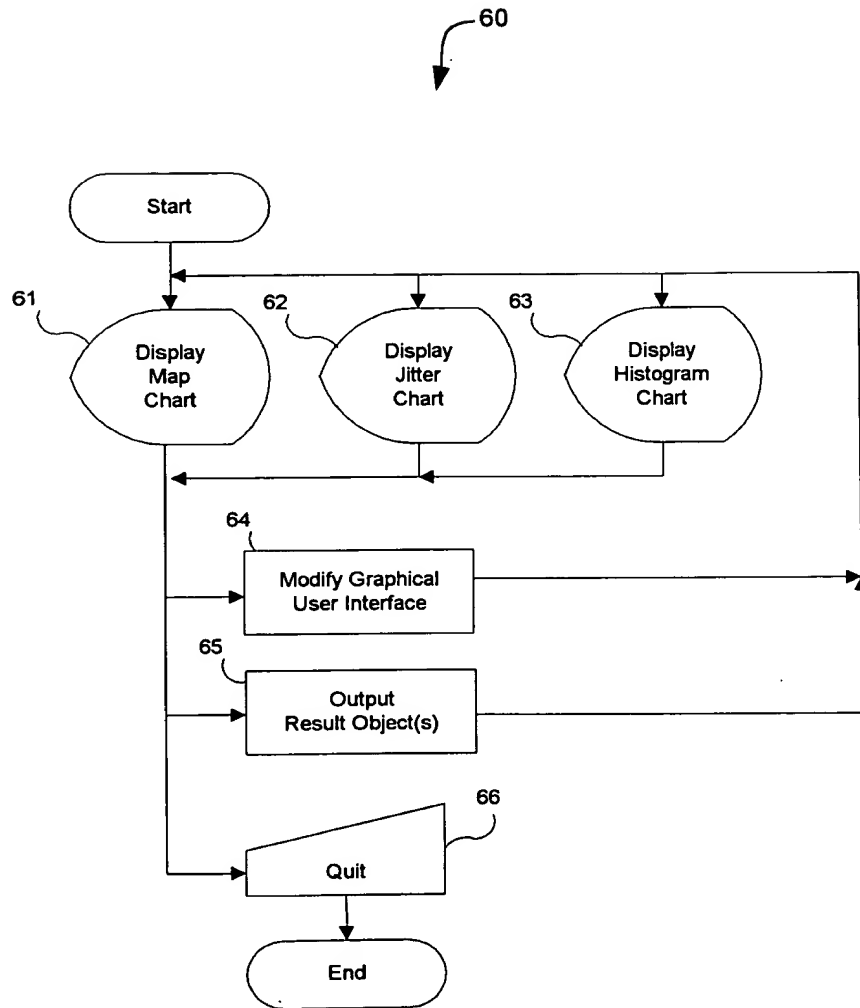


FIG. 6

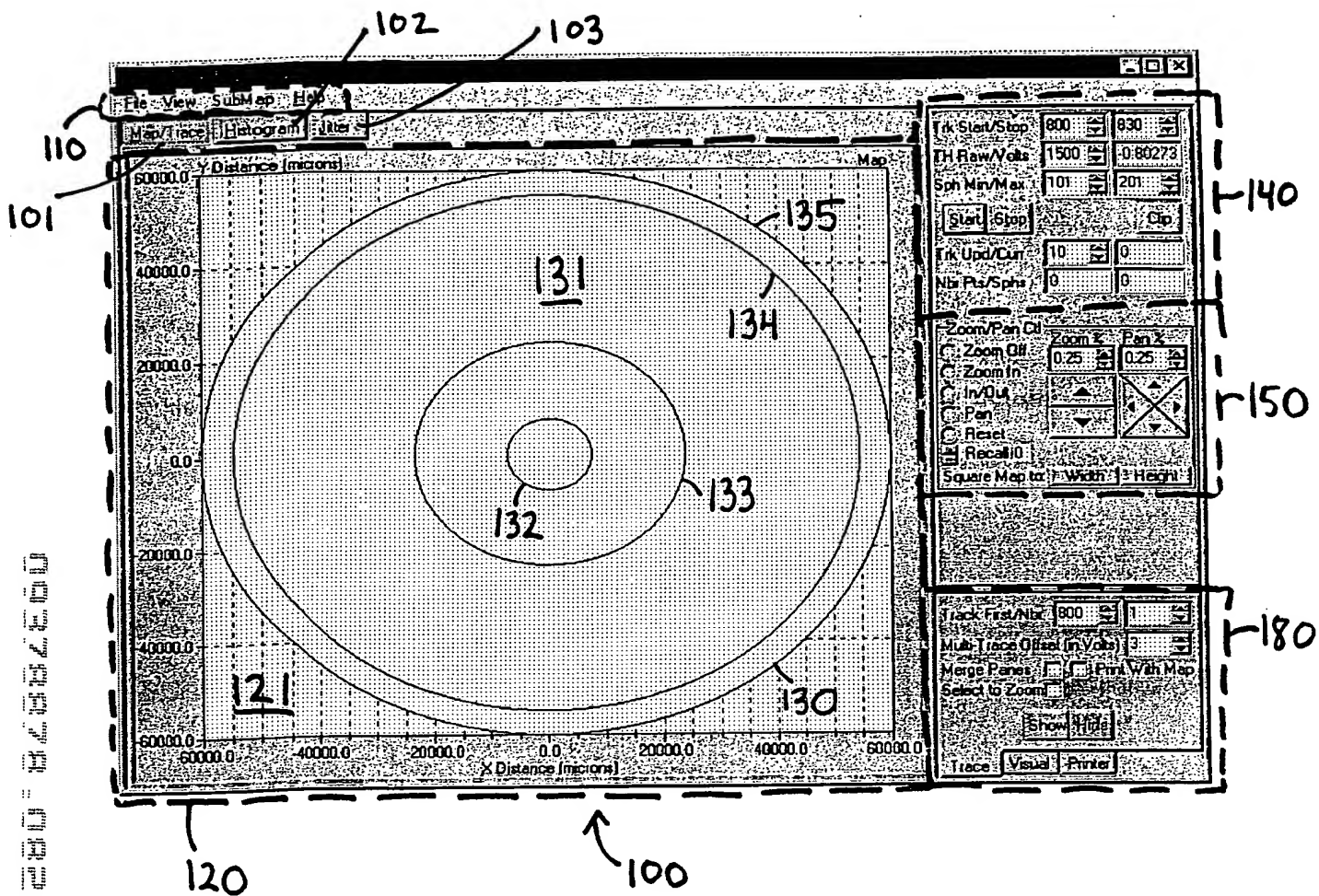


FIG. 8

Figure 1 is a screenshot of a "Debug Info" window. The window contains the following fields and controls:

- Trk Curr/NbrPls:** 000
- Nbr Pls/Sphs:** 0
- Total Pls Read:** 0
- File Position:** 0
- Points Plotted:** 0
- Points Skipped:** 0
- Points Per Trk:** 0
- Tot Pls Tested:** 0
- Difference:** 0
- Starting:** ☐
- Ending:** ☐
- Passed:** ☐
- Failed:** ☐
- Hi:** ☐
- Lo:** ☐
- Cars Off:** ☐

FIG. 9

007700-08399

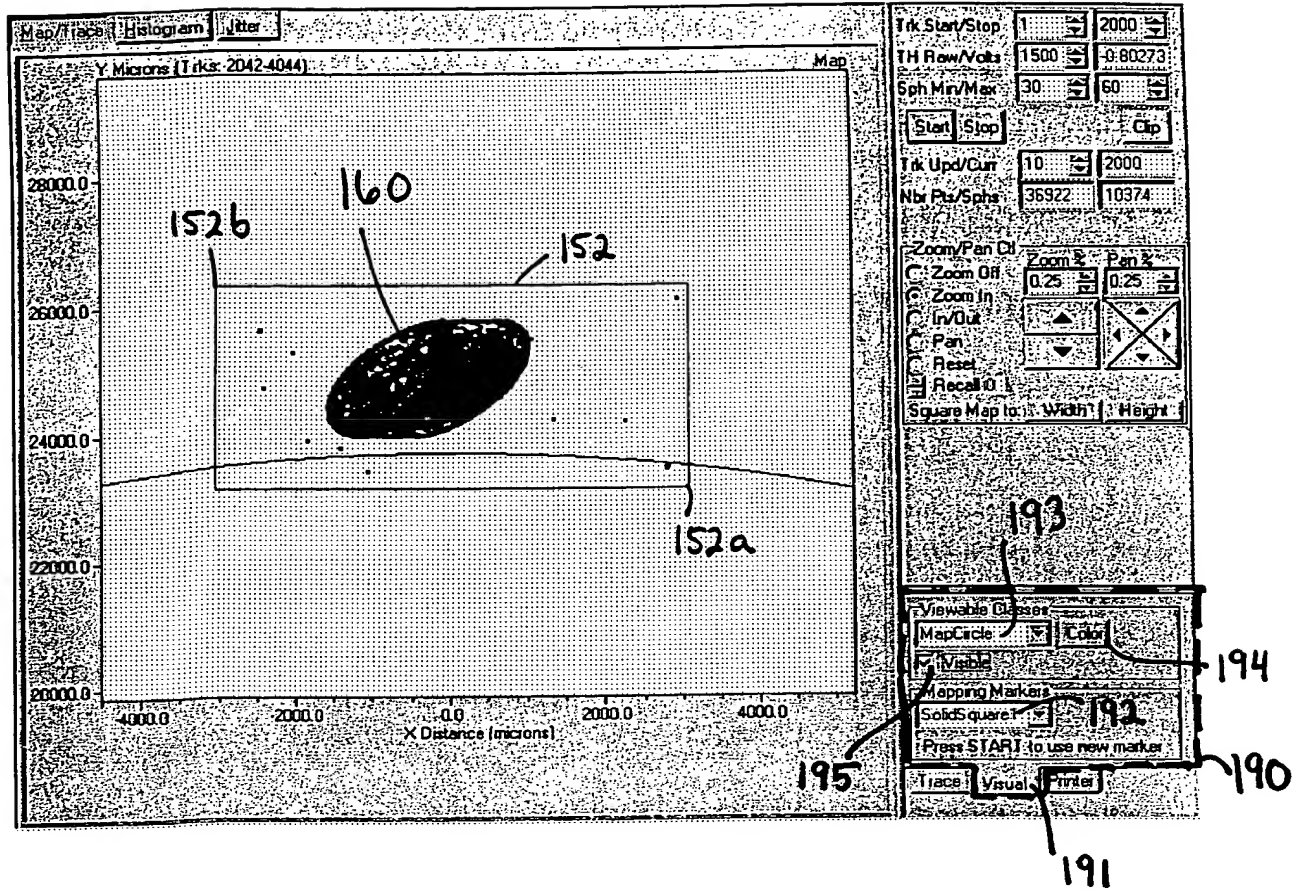


FIG. 11a

Map/Trace Histogram Filter

Nbr of Points (per Voltage Bin)

250000.0

200000.0

150000.0

100000.0

50000.0

0.0

Volts (128 Bins across 6 Volt range)

122b

Trk Start/Slop 662 991

TH Row/Volts 1500 0.80273

Sph Min/Max 101 201

Start Stop Clip

Trk Upd/Cur 10 991

Nbr Pts/Sphs 2187 47

Zoom/Pan Cl

C Zoom On 0.25 0.25

C Zoom In

C In/Out

C Pan

C Reset

Recall 0

Square Map to Width Height

Track Fast/Nbr 800 1

Multi Trace Cl/set (in Volts) 3

Merge Panes Print With Map

Select to Zoom

Show Hide

Trace Visual Print

FIG. 12

Map/Trace Histogram Filter

Nbr of Objects (of specified Size)

Y-axis: 0.0, 20.0, 40.0, 60.0, 80.0

X-axis: 0.0, 2.0, 4.0, 6.0, 8.0, 10.0

ObtSize in microns (meeting TH[<-1500(-0.802734V)])

Filter

Trk Start/Stop 662 991

TH Flow/Volts 1500 -0.80273

Sph Min/Max 101 201

Start Stop Clip

Trk Upd/Cur 10 991

Nbr Pts/Sphs 2197 47

Zoom/Pan Cl

Zoom Out	Zoom In
0.25	0.25
Up/Down	Left/Right
Reset	

Recall 0

Square Map to: Width Height

Track First/Nbr 800 1

Multi-Trace Offset (n Vols) 3

Merge Panels Print With Map

Select to Zoom

Show Hide

Trace Visual Printer

FIG. 13

Map/Trace Histogram Filter

Y Microns (Tds: 897-925) Map

24620.0

24610.0

24600.0

24590.0

24580.0

125

890.0 900.0 910.0 920.0 930.0 940.0 950.0

X Distance (microns)

Trk Start/Stop 662 991

TH Row/Volts 1500 -0.80273

6ph Min/Max 27 41

Start Stop Clip

Trk Upd/Curr 10 991

Nbr Pts/Spha 2187 418

Zoom/Pan On

Zoom Off 0.25 0.25

Zoom In

Inv/Dia

Pan

Reset

Recall 0

Square Map to X Width Y Height

Viewable Classes

anObjectLine Color

Visible

Mapping Markers

Solid Square 1

Press START to use new marker

Trace Visual Printer

FIG. 15

00378878-000000

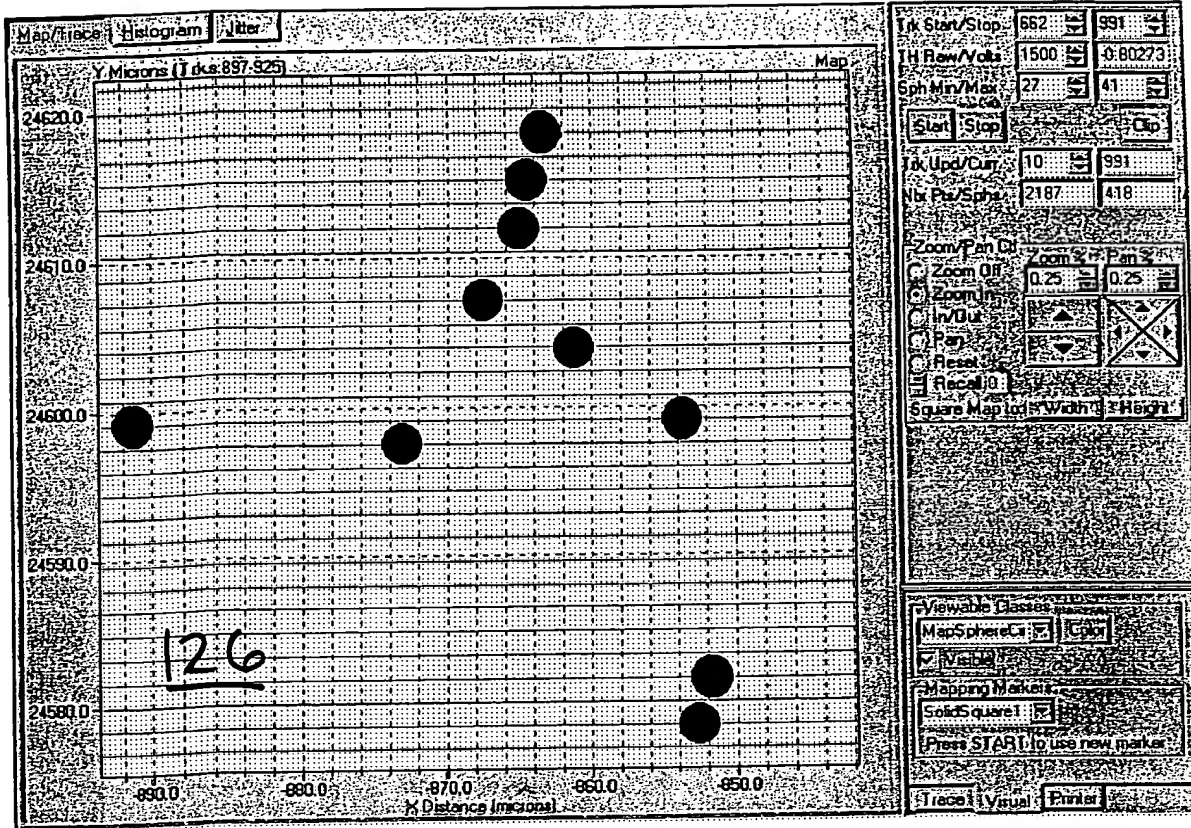


FIG. 16

FIG. 17

Map/Trace Histogram Filter

Y Microns (Teks: 897.525) Map

24620.0

24610.0

24600.0

24590.0

24580.0

129

890.0 880.0 870.0 860.0 850.0

X Distance (microns)

Tek Start/Stop: 662 991

In Row/Vol: 1500 -0.80273

Sph Min/Max: 27 41

Start Stop Op

Ink Upd/Cur: 10 991

Nbr Pts/Sph: 2187 418

Zoom/Pan On

Zoom Off 0.25 0.25

Zoom In

Ink On

Pan

Reset

Recall ID

Square Map to: X Width Y Height

Viewable Classes

MapSphereLi

Mark

Mapping Marker

SolidSquare1

Press START to use new marker

Trace Visual Printer

FIG. 19

00220-84882200

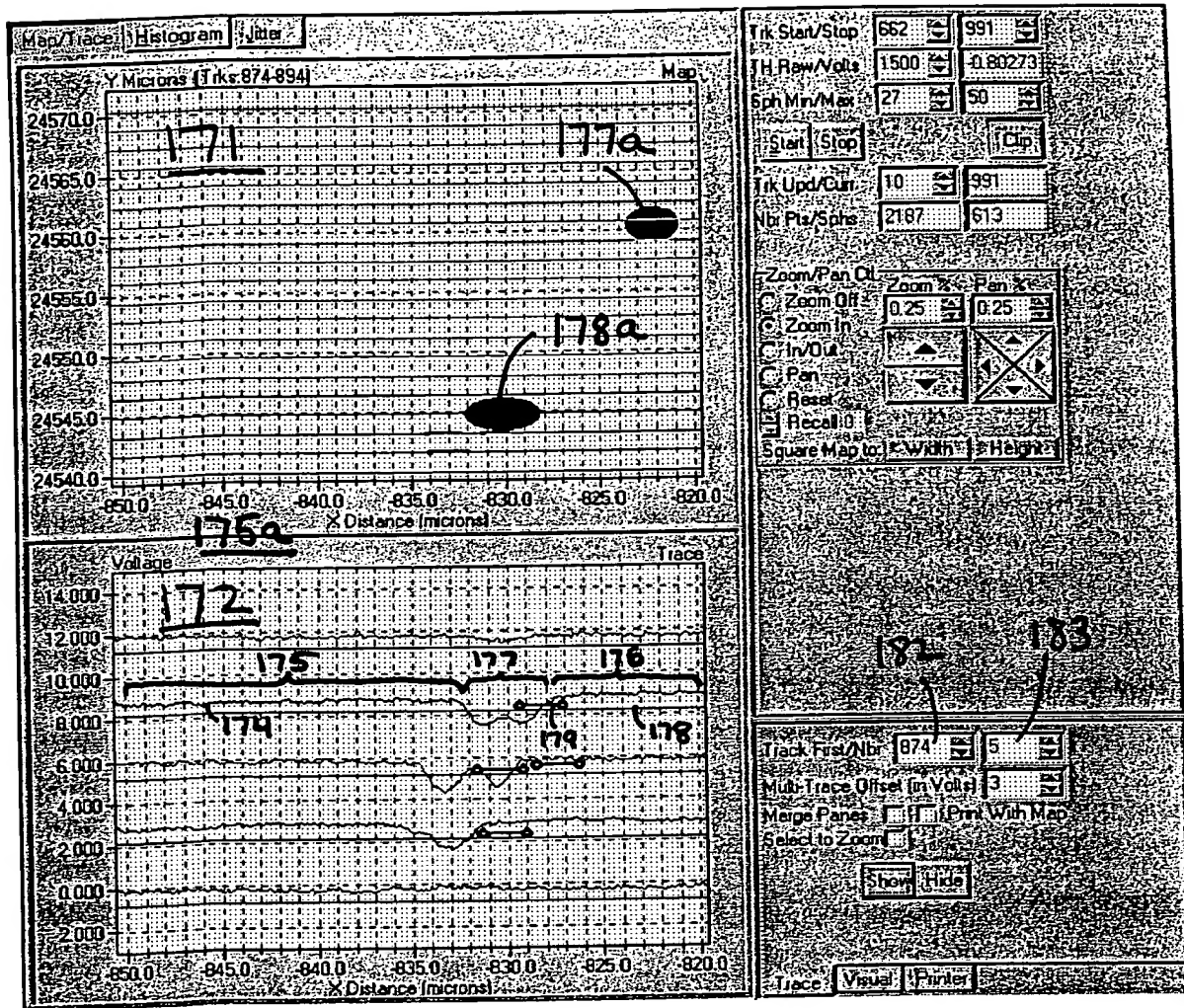


FIG. 20

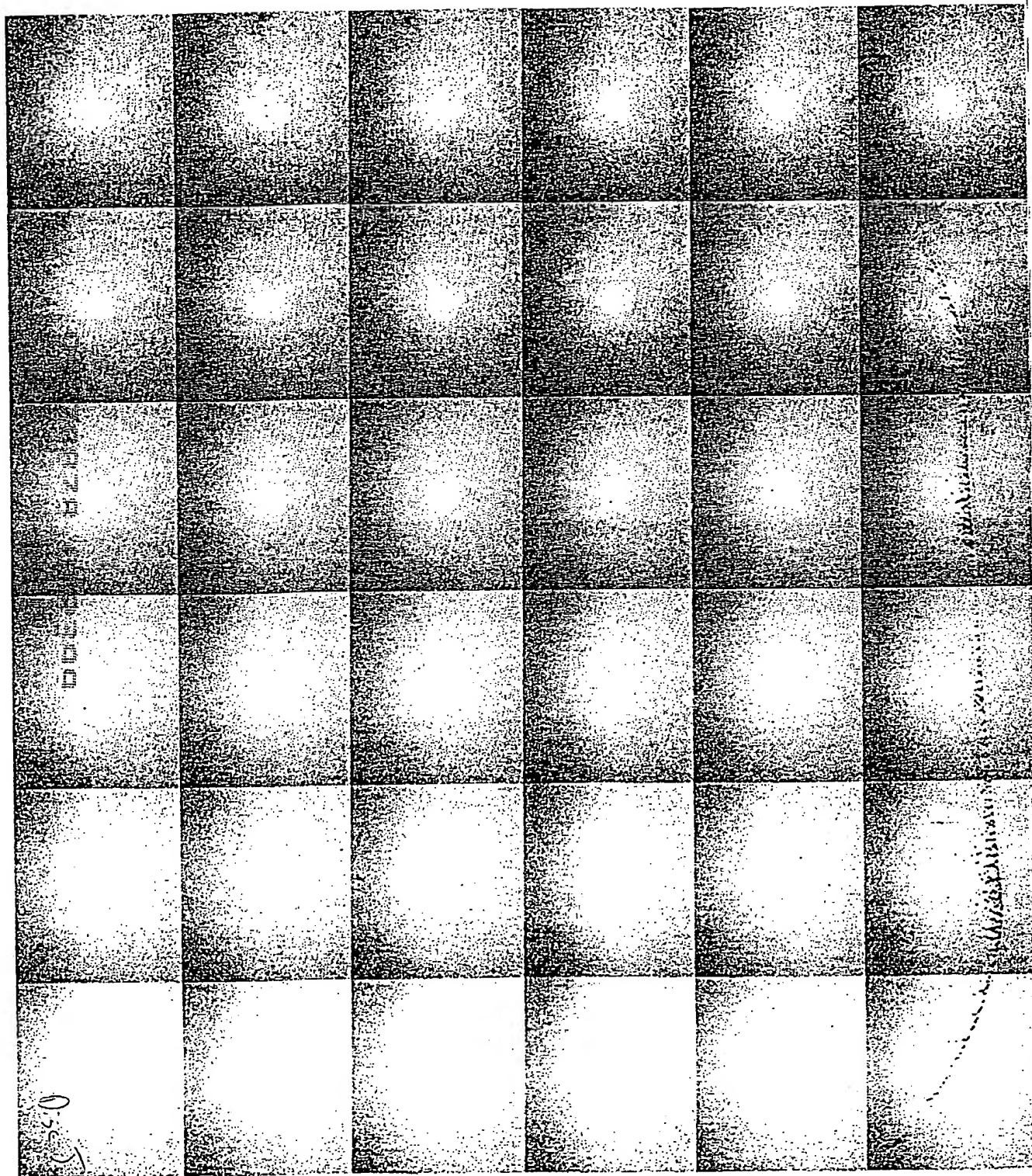


FIG. 21

00378978-00230

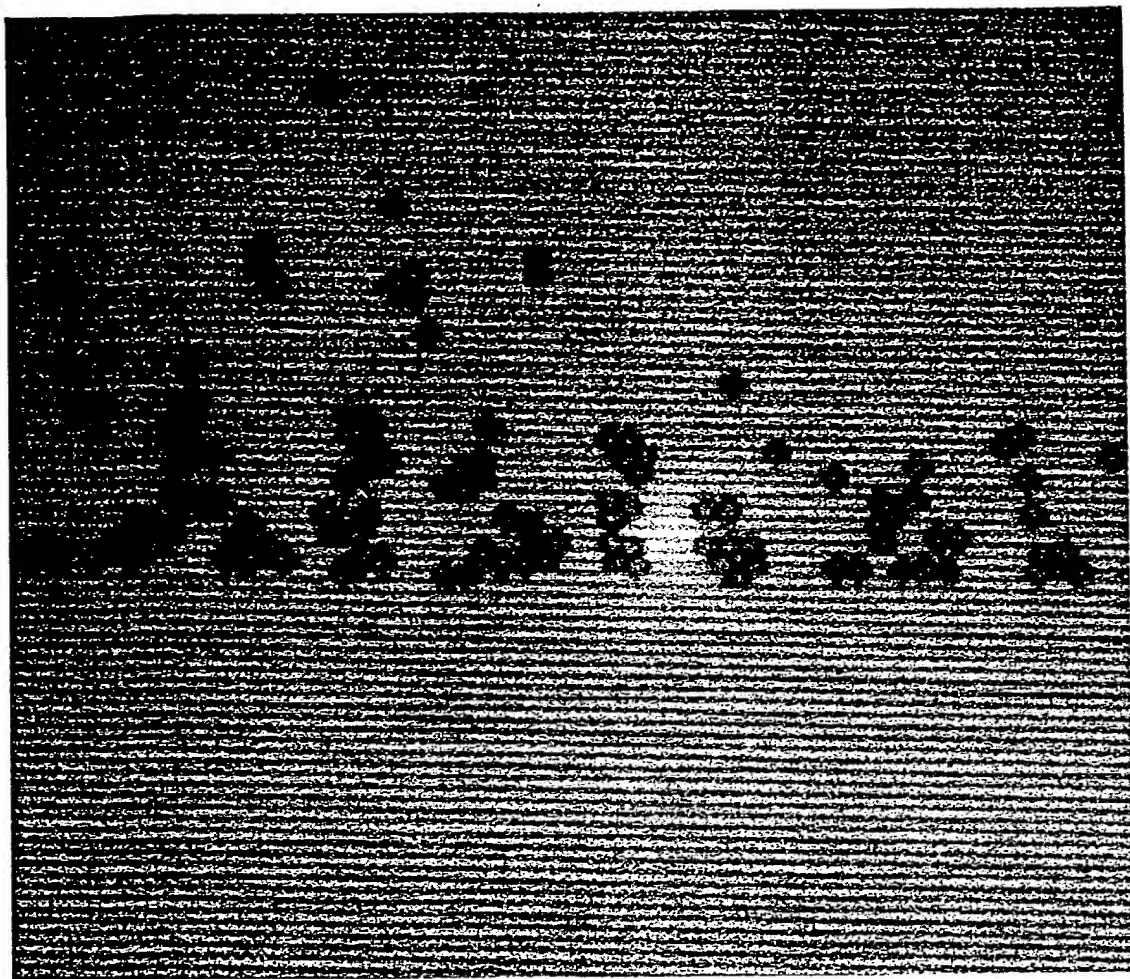


FIG. 22

FIG. 23

00000-8489200

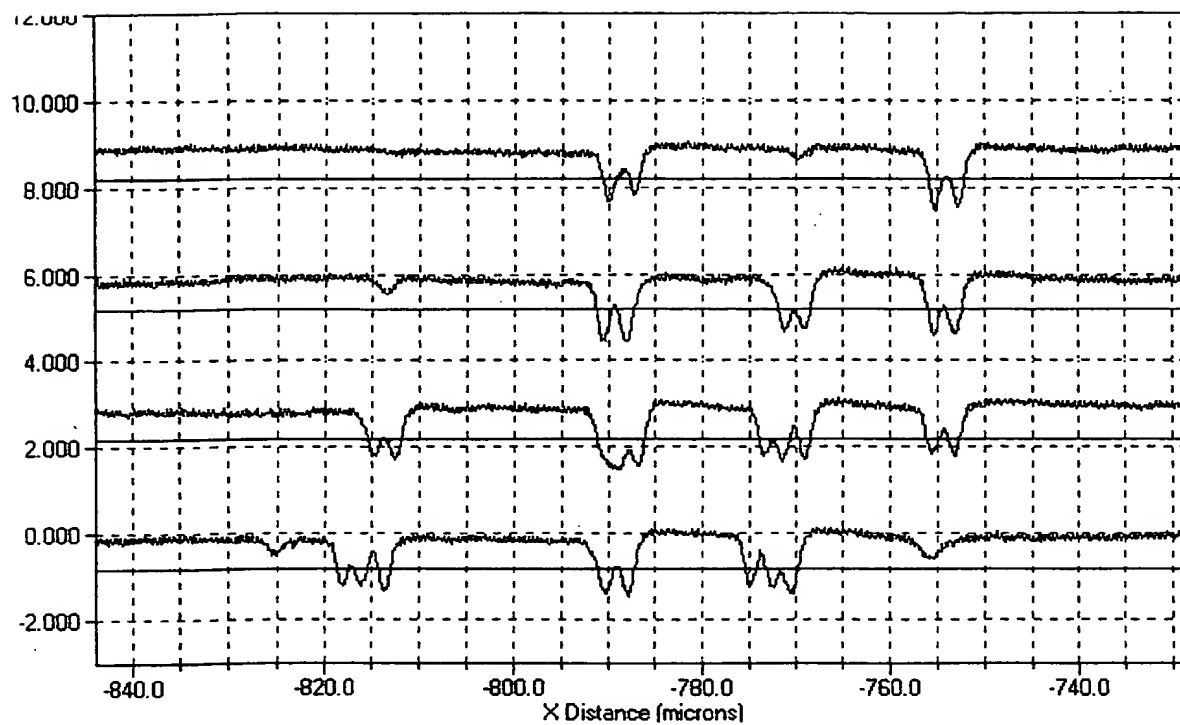


FIG. 24

FIG. 25

FIG. 27

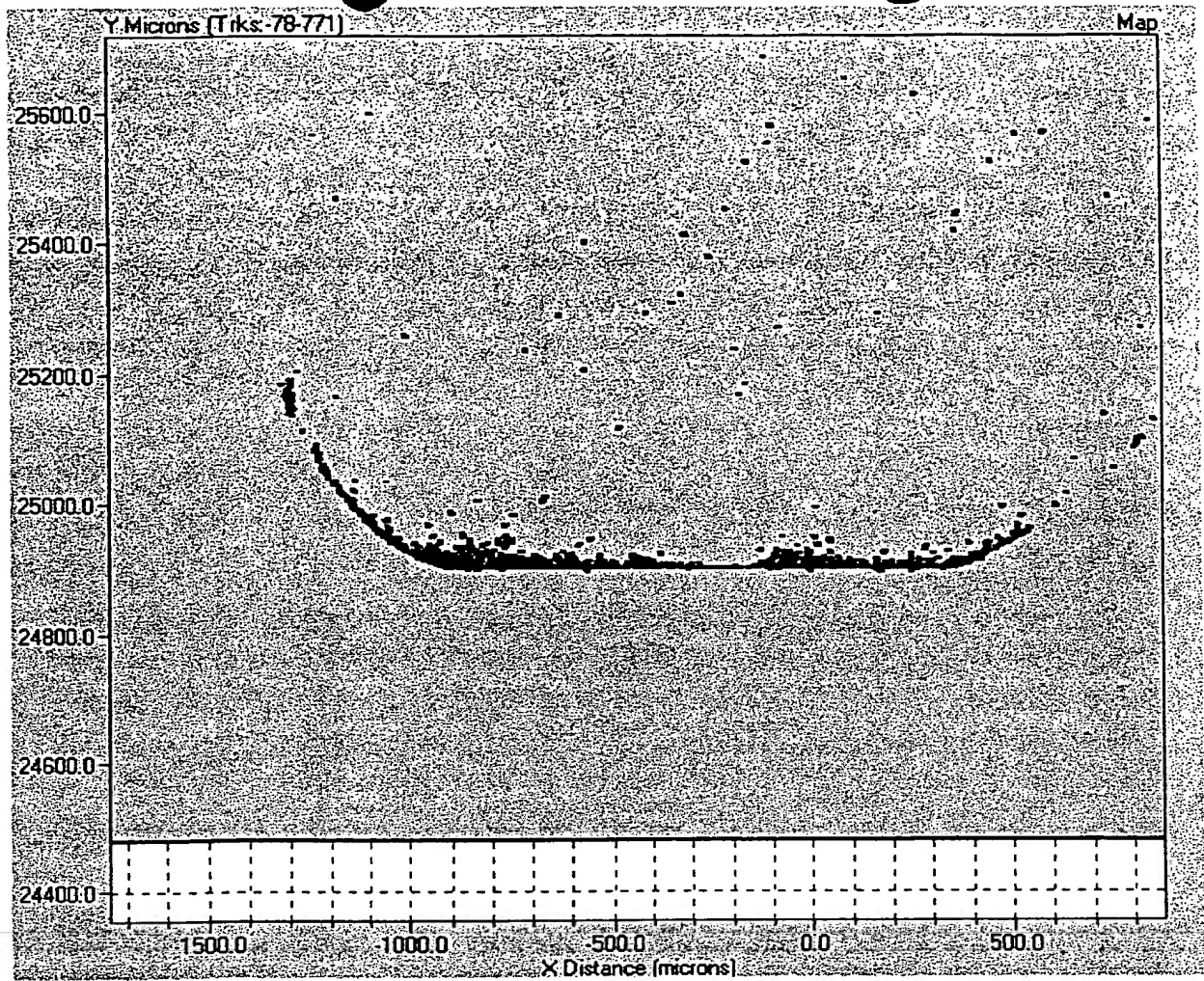


FIG. 29

